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APPLICATION N	О.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,795		02/23/2004	Masayuki Hirose	040256-0132	5437
22428	7590	03/25/2005		EXAMINER	
FOLEY.		RDNER	PRASAD, CHANDRIKA		
SUITE 500 3000 K STREET NW WASHINGTON, DC 20007				ART UNIT	PAPER NUMBER
				2839	
				DATE MAILED: 03/25/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)					
	10/782,795	HIROSE, MASAYUKI					
Office Action Summary	Examiner	Art Unit					
	Chandrika Prasad	2839					
The MAILING DATE of this communication a		1					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thirty (od will apply and will expire SIX (6) MONTH tute, cause the application to become ABAN	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 23	February 2004.						
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• • • • • • • • • • • • • • • • • • • •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) <u>1-21</u> is/are rejected. 7) ☐ Claim(s) is/are objected to.	 Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-21 is/are rejected. 						
Application Papers							
9)⊠ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)	, □						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date <u>5/3/04</u>. 	Paper No(s)/I	nmary (PTO-413) Mail Date nmal Patent Application (PTO-152)					

Application/Control Number: 10/782,795

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DETAILED ACTION

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

- 2. Claims 1-20 are objected to because of the following informalities:
 - Claim 1, line 2; claim 4, line 3: "core material" should be changed to -- core --.
 - Claims 2-21, line 1: The beginning article "A" should be changed to -- the --.
 - Claims 13-21, line 1: "cable line" should be changed to -- cable --.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim1- 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Huang (6394852).

Huang (Figures 5-13) shows a terminal structure of a direct current superconducting cable comprising a core 111 and a plurality of superconducting layers 121, 131, 141, 151 exposed in a step-by-step manner to a plurality of outgoing conductors 32, 33, 34, 35, respectively in a direction perpendicular to the axial direction and extended along the axial direction. A plurality of insulating fixing layers are provided to support the core and the outgoing conductors. A return-current layer 161 is provided

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next to an insulating layer. One end of the cable has a terminal structure and each of the outgoing conductors is connected to loads.

5. Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang (6394852).

Huang shows all the features of these claims except a mechanism for cutting off a superconducting layer from power supply and load. Such a mechanism such as switch is common knowledge. It would have been obvious to one of ordinary skill in the art at the time of the instant invention to provide such a mechanism because this would provide a means to cutoff power and/or load for safety reasons as is well known in the art of electrical connectors.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lin 96572402), Buck (4165147), Falossi et al. (5409403), Showman et al. (4390224).

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Contact Information

9. Any correspondence to this action may be mailed to:

Commissioner for Patents Post Office Box 1450 Alexandria, VA 22313-1450

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chandrika Prasad whose telephone number is (571) 272-2099.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor can be reached at (571) 272-2800 ext 39. The fax number is (703) 872-9306.

Chandrika Prasad Primary examiner March 21, 2005